

## TECHNICAL DATA

# Fluke Calibration 9100S Handheld Dry-Well



## Key features

- Temperature ranges from  $-10^{\circ}\text{C}$  to  $375^{\circ}\text{C}$ .
- Accuracy to  $\pm 0.25^{\circ}\text{C}$ , with stability of  $\pm 0.05^{\circ}\text{C}$  at  $0^{\circ}\text{C}$ .
- Equipped with an RS-232 interface for connectivity.

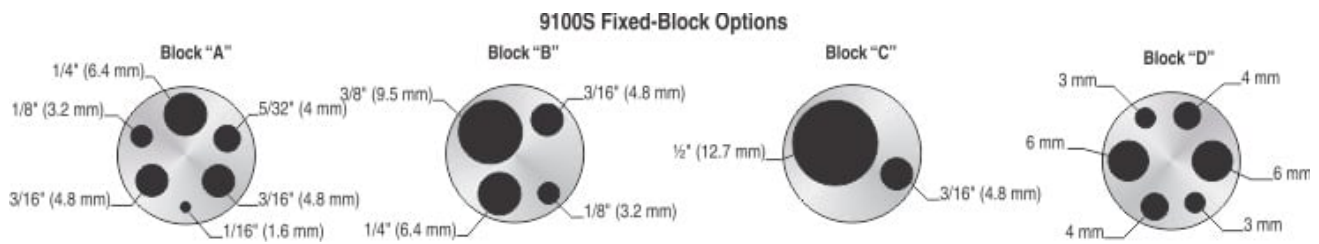
## Product overview: Fluke Calibration 9100S Handheld Dry-Well

### 9100S Dry-Well

Since we introduced the world's first truly handheld dry-well, many have tried to duplicate it—in vain. Despite its small size (2¼ inches high and 5 inches wide) and light weight, the 9100S outperforms every dry-well in its class in the world.

It's simple and convenient, too. Anyone can learn to use one in less than 15 minutes. It has a range to  $375^{\circ}\text{C}$  ( $707^{\circ}\text{F}$ ) and is perfect for checking RTDs, thermocouples, and small bimetal thermometers in the field.

Plug it in, switch it on, set the temperature with the front-panel buttons, and insert your probe into the properly sized well. Compare the reading of your device to the display temperature or to an external reference, and the difference is the error in your device. With a proprietary Fluke Calibration temperature controller, the 9100S has a display resolution of 0.1 degrees, an accuracy of  $\pm 0.5^{\circ}\text{C}$ , a stability of  $\pm 0.1^{\circ}\text{C}$ , and a stabilization time of just five minutes.



## Specifications: Fluke Calibration 9100S Handheld Dry-Well

Specifications	9100S	9102S
Range	35°C to 375°C (95°F to 707°F)	–10°C to 122°C (14°F to 252°F) at 23°C ambient
Accuracy	±0.25°C at 50°C; ±0.25°C at 100°C; ±0.5°C at 375°C	±0.25°C
Stability	±0.07°C at 50°C; ±0.1°C at 100°C; ±0.3°C at 375°C	±0.05°C
Well-to-well uniformity	±0.2°C with sensors of similar size at equal depths within wells	
Heating times	35°C to 375°C: 9.5 minutes	Ambient to 100°C: 10 minutes
Stabilization	5 minutes	7 minutes
Cooling times	375°C to 100°C: 14 minutes	Ambient to 0°C: 10 minutes
Well depth	102 mm (4 in); 1.6 mm (1/16 in) hole is 89 mm (3.5 in) deep	102 mm (4 in)
Removable inserts	N/A	Available in sizes from 1.6 mm (1/16 in) to 11.1 mm (7/16 in) [6.4 mm (1/4 in) and 4.8 mm (3/16 in) included]
Power	115 V AC (±10%), 55–65 Hz, 1.5 A or 230 V AC (±10%), 0.8 A, 45–55 Hz, 175 W	94–234 V AC (±10%), 50/60 Hz, 60 W; or 12 V DC
Size (H x W x D)	57 x 125 x 150 mm (2.25 x 4.9 x 6.1 in)	99 x 140 x 175 mm (3.9 x 5.5 x 6.9 in)
Weight	1 kg (2 lb 3 oz)	1.8 kg (4 lb)
Computer interface	RS-232 included	
NIST-traceable calibration	Data at 50°C, 100°C, 150°C, 200°C, 250°C, 300°C and 375°C	Data at –10°C, 0°C, 25 °C, 50°C, 75 °C, 100°C and 122°C

## Ordering information



### **9100S-A**

Fluke Calibration 9100S-A Handheld Dry-Well  
HDRC Handheld Dry-Well A

**For 9100S with other inserts below, please visit request a quote.**

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### **9100S-B**

Fluke Calibration 9100S-B Handheld Dry-Well  
HDRC Handheld Dry-Well B

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### **9100S-C**

Fluke Calibration 9100S-C Handheld Dry-Well  
HDRC Handheld Dry-Well C

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### **9100S-D**

Fluke Calibration 9100S-D Handheld Dry-Well  
HDRC Handheld Dry-Well D

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